FIG. 1

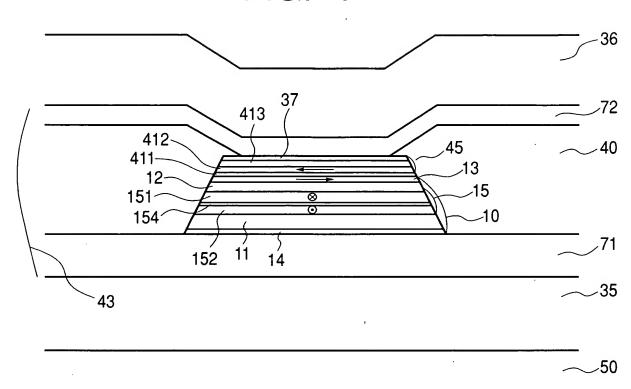
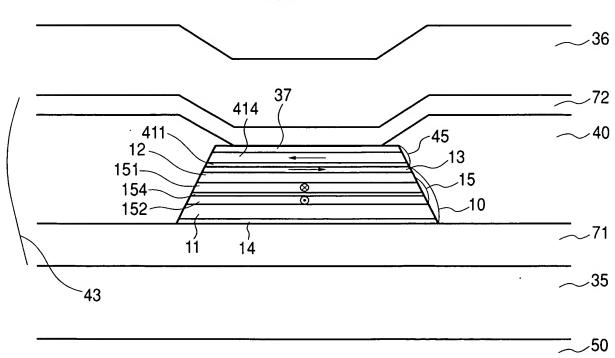


FIG. 2



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FIG. 3

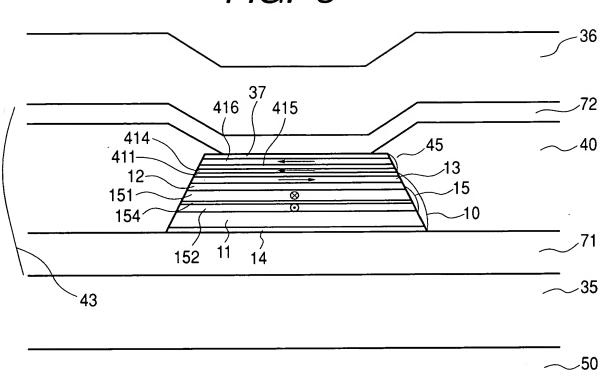
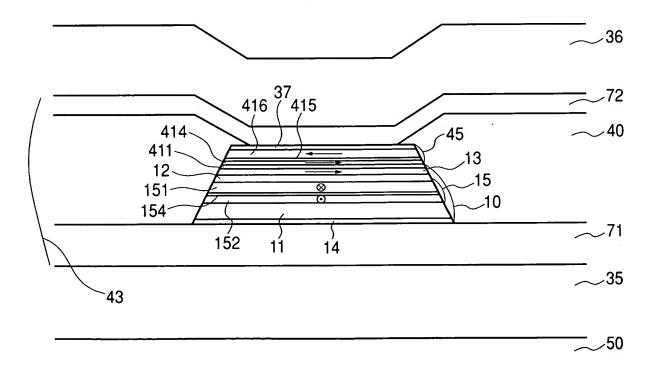


FIG. 4



POSITION MISFIT

POSITION MISFIT

FLUX
LEAKAGE
POSITION
MISFIT

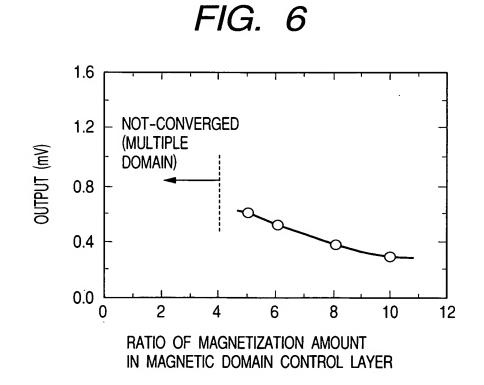


FIG. 7

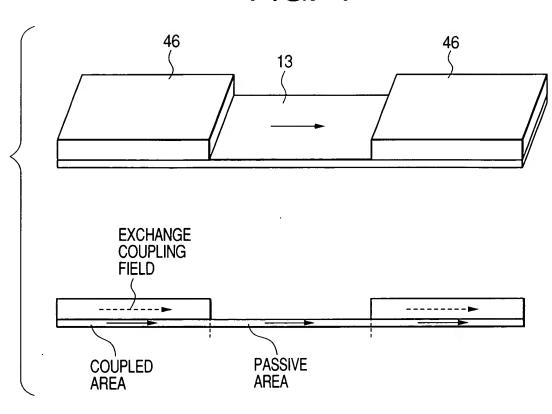
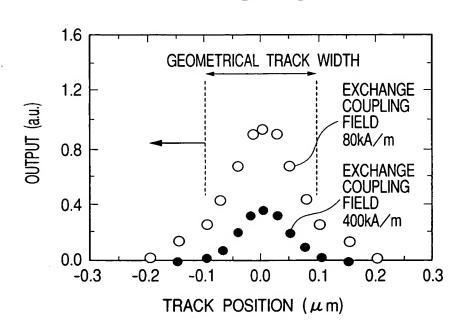


FIG. 8



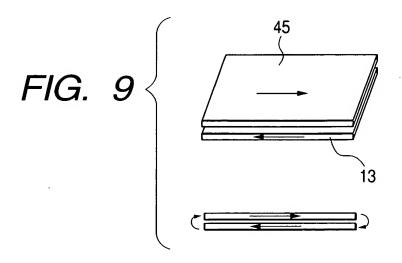


FIG. 10

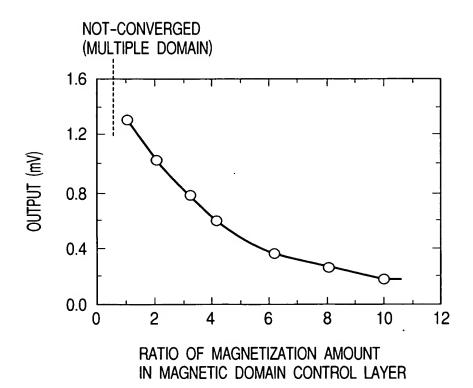


FIG. 11

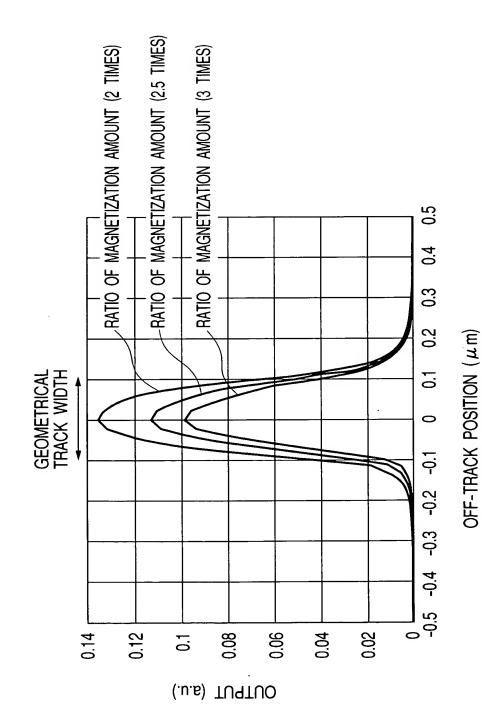
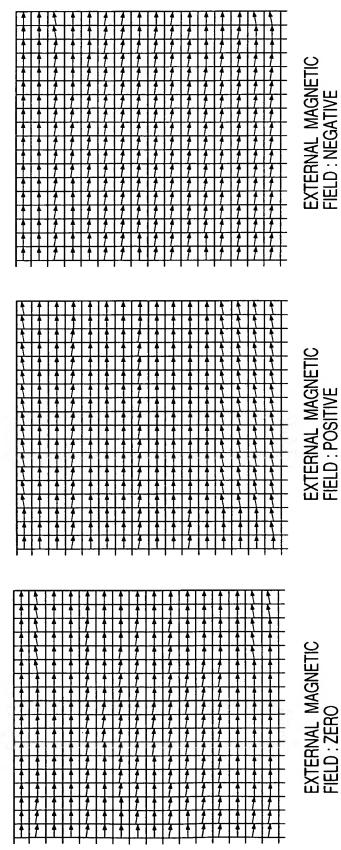


FIG. 12



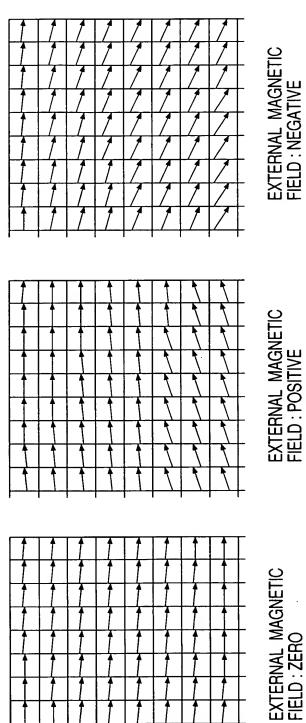
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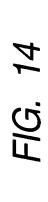
EXTERNAL MAGNETIC FIELD: POSITIVE

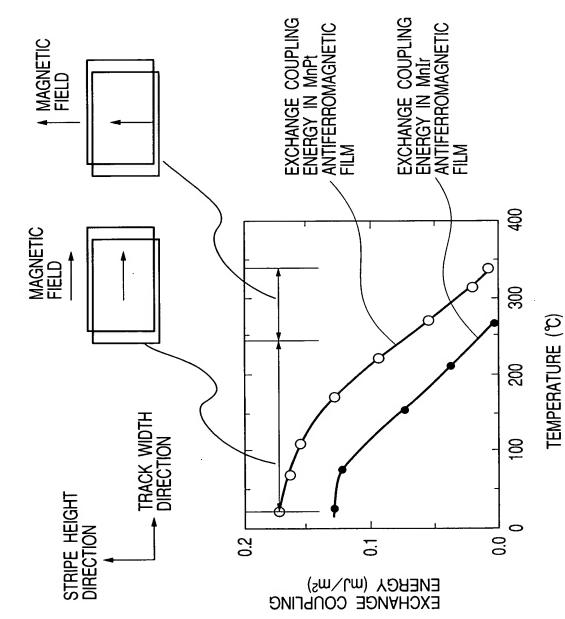
EXTERNAL MAGNETIC FIELD: NEGATIVE

MAGNETIZATION DISTRIBUTION IN HARD-BIAS FILM

FIG. 13







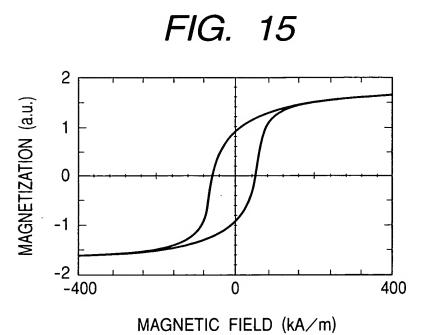


FIG. 16

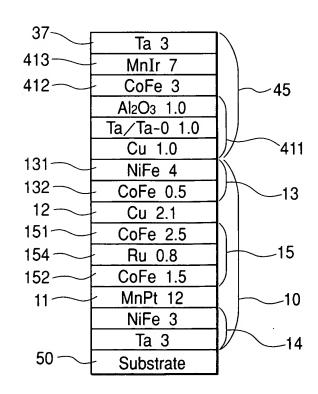


FIG. 17

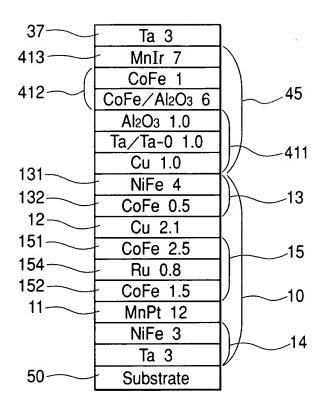


FIG. 18

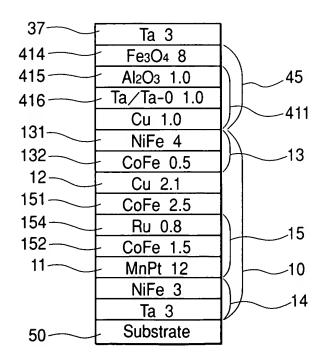


FIG. 19

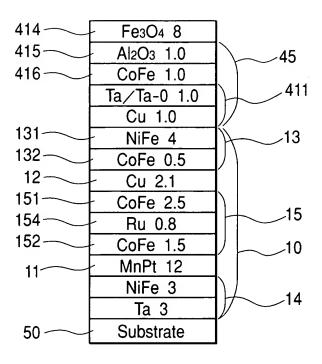
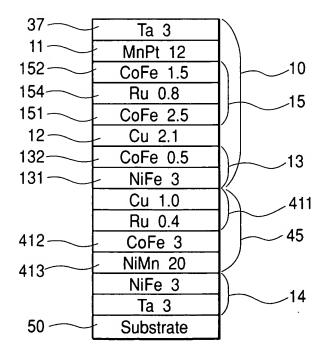
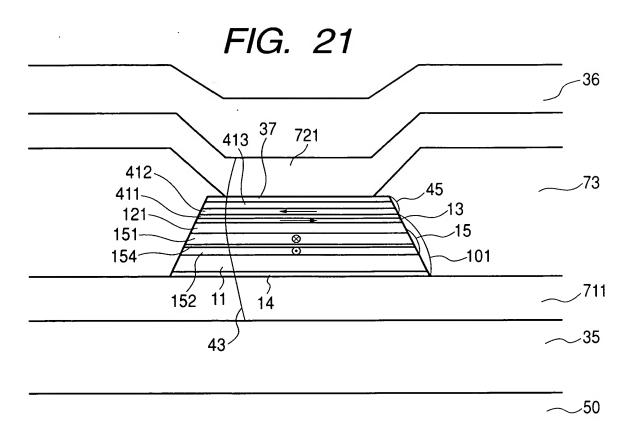


FIG. 20



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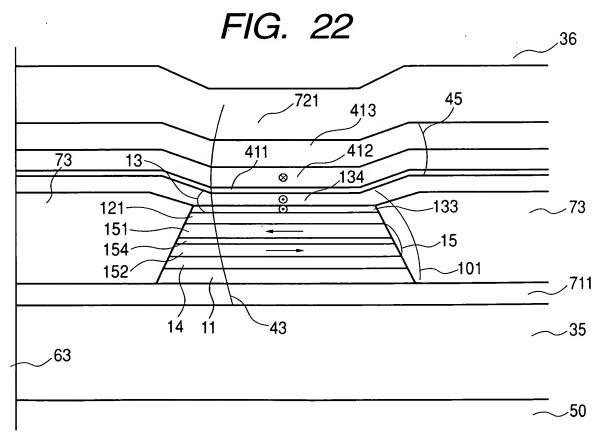


FIG. 23

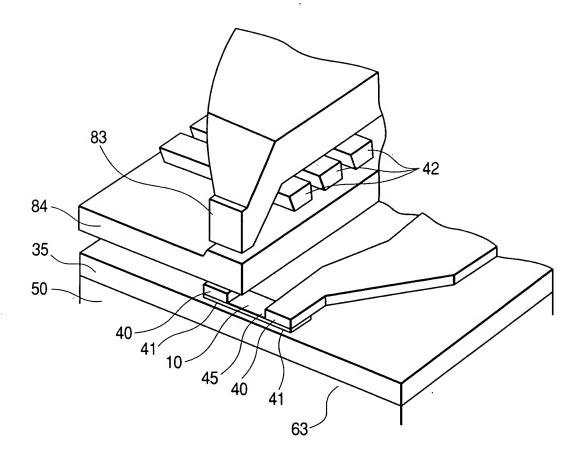


FIG. 24

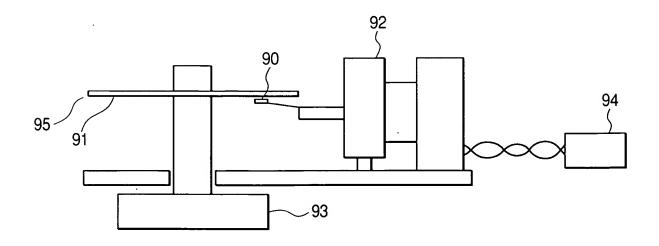
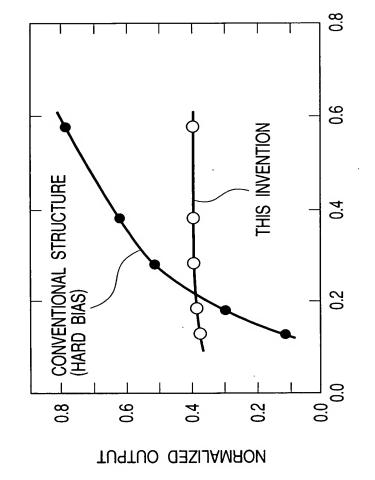


FIG. 25



READ TRACK WIDTH (μ m)